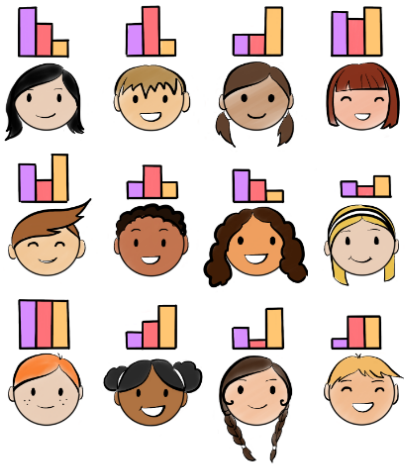
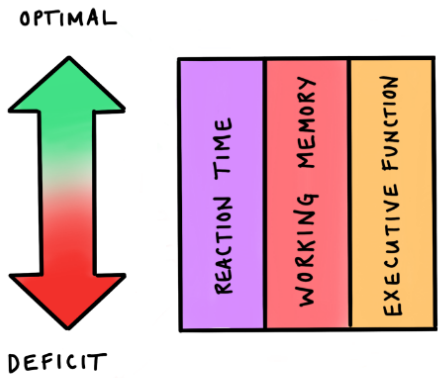
Current Educational Challenge



Over the past 5 years, the Cognitive Intervention & Research team at Carroll has discovered that the majority of students with language-based learning disabilities have weaknesses in one or more cognitive domains as well.

These cognitive capacities such as reaction time, working memory, and executive function are crucial for academic skills such as reading fluency, comprehension, and math literacy.

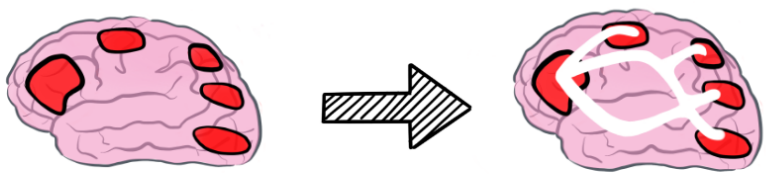


So, how do we help each child optimize those cognitive capacities so that they can learn effectively in different subjects?

Targeted Cognitive Intervention (TCI)

TCI is an individualized, computer-based training program developed at the Carroll School and designed to strengthen particular cognitive skills and their underlying pathways in the brain.

During TCI, students work on computer game based exercises that target specific neural connections.



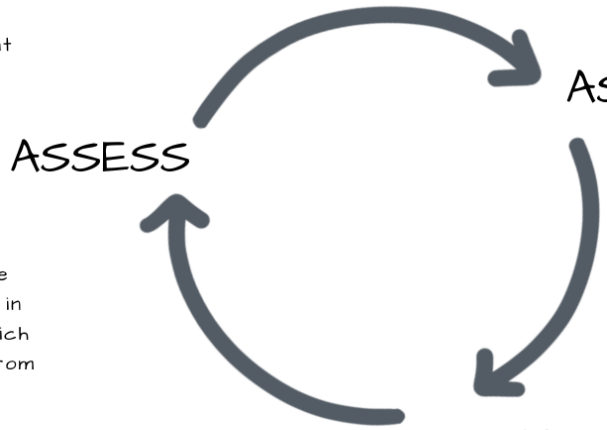
By driving communication between different brain regions, TCI promotes the development of a strong, efficient learning network.

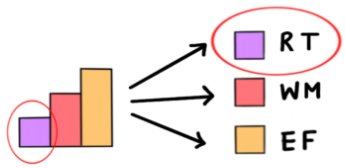
This is an example of neuroplasticity - the brain's ability to physically change in response to environmental influences.

* TCI is NEUROPLASTICITY in action! *

How TCI Works

1) Prior to TCI training, we administer assessments that measure major cognitive domains.



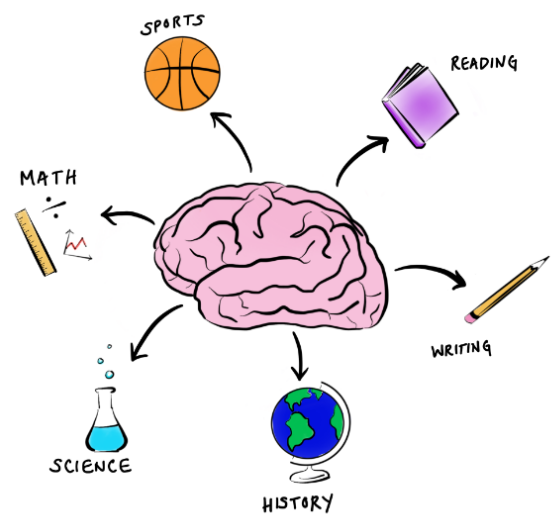


2) Based on their cognitive profile, each student is assigned to one of three programs: reaction time, working memory, or executive function.

3) Each student works on a set of activities that targets their specific cognitive weakness. Throughout the program, specialists monitor student progress and provide coaching.

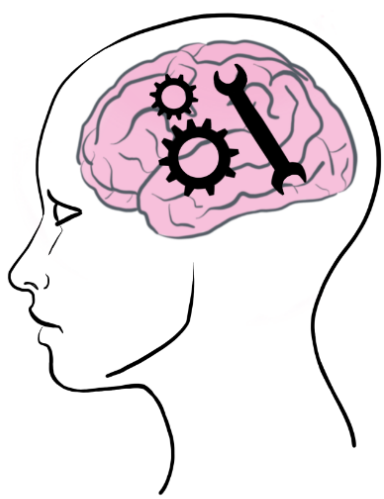
4) At the end of TCI, we administer a post-test in order to determine which areas have improved from TCI.

So, Why TCI?



TCI does not teach specific content - rather, it builds the cognitive capacities that are necessary for students to access any content they may encounter.

By improving the brain's ability to function efficiently, TCI helps students develop a "cognitive toolbox" that will carry them through their lives.



In Summary...

TCI strengthens connections between critical brain hubs, thereby improving students' cognitive weaknesses, learning profiles, and academic outcomes.